



Location: Salida, CO

Year: 2009

Construction Dollar Value: \$500,000

Owner: City of Salida

Contact: Lonnie Oversole, Water Superintendent, 719-539-6721

Key SGM Staff: Warren Swanson, PE; Ryan Loebach, PE

Client Benefits

- Project completion on-time and in-budget
- Value engineering improvements to control project costs while maintaining or improving facility performance
- Improved plant capacity, filtered water quality, and operational ease

Challenges

- Tight time schedule, which SGM met by making the project a priority and closely coordinating with the City, CDPHE, and construction contractors
- Completing a partial design started by another firm, which SGM met by thoroughly reviewing and adopting or revising all aspects of the original design

The City of Salida selected SGM to be its City Engineer of Record in the summer of 2008. It quickly enlisted SGM's Drinking Water Team to deliver this long-delayed, partially-designed, critical water infrastructure project. SGM responded quickly, finalizing the project design, incorporating value engineering recommendations, obtaining CDPHE construction approval, and bidding the project in time for construction to begin in early winter. SGM's prompt attention to Salida's needs allowed improvements to the City's water plant to be made during the low demand season when the facility could be taken off-line. SGM then worked closely with City staff and the contractor, Moltz Construction, to ensure that the water treatment plant was back on-line in time for 2009's spring demand season.

The project markedly improved the WTP's filter backwashing capability. The results were increased plant capacity, improved filtered water quality, and smoother overall operations. The project also completed the creation of a new upper pressure zone to more efficiently and reliably serve new growth areas.

Project Elements

- Complete finished water pump station with:
 - Two 350-gpm, 40-hp vertical turbine pumps
- 5,000-gpm pressurized filter backwash supply system, including:
 - 16" piping, PRV, flow meter and valves
 - Re-built backwash pump as backup
- WTP SCADA system upgrades
- Clearwell and filter piping improvements
- House water and sample pumping improvements
- High-efficiency boiler with waste gas flue
- Miscellaneous distribution system improvements